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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID	:	**CP-2018-04-09-16**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, **Date: 12-04-2018**
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore
Project Name	:	Removal of Debris and Desilting of drains in Bagalagunte in Ward No.14
Agency	:	Sri. MN Ramaiah No.35/28, 6th Main, Dattatriya Nagara, BSK, 3rd Stage, Bengaluru-560085
Customer's Reference	:	EE/DD/WO/313/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-2018
Sample ID No	:	2018-04-09-16 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-04-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.98	–
2	Finess by Air permeablity method (m^2/kg,Min)	278.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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Certificate No : TC- 6548

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID	:	**CP-2018-04-09-16**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore
Project Name	:	Removal of Debris and Desilting of drains in Bagalagunte in Ward No.14
Agency	:	Sri. MN Ramaiah No.35/28, 6th Main, Dattatriya Nagara, BSK, 3rd Stage, Bengaluru-560085
Customer's Reference	:	EE/DD/WO/313/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-2018
Sample ID No	:	2018-04-09-16 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	10-04-2018
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Date: 08-05-2018

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm2	Not less than 53 N/mm^2

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2018-04-09-16** **Date: 12-04-2018**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore
Project Name	:	Removal of Debris and Desilting of drains in Bagalagunte in Ward No.14
Customer's Reference	:	Sri. MN Ramaiah No.35/28, 6th Main, Dattatriya Nagara, BSK, 3rd Stage, Bengaluru-560085
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-2018
Sample ID No	:	2018-04-09-16/02
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	09-04-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	155	155	15.5	84.5	90-100
3	1.18 mm	290	445	44.5	55.5	70-100
4	600 micron	146	591	59.1	40.9	40-100
5	300 micron	116.5	707.5	70.8	29.3	5-70
6	150 micron	112.5	820	82.0	18.0	0-15
7	Pan	180	1000	100.0	0.0	0

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2018-04-09-16
Sample ID No : 2018-04-09-16/02
Date: 12-04-2018

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	*Compacted Bulk Density (Kg/litre)	1.90	–
5	*Loose Bulk Density (Kg/litre)	1.73	–

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